#### REMARKS

### I. AMENDMENTS

٦ 37 and 38 are under examination Claims 1, 3-10 and 12-41 are currently pending in this application. Claims 1, 3-10, 12-

last paragraph, which extends to page 21; and page 27, the last paragraph of the application as example, page 10, the last paragraph to page 12, paragraph 2; page 15, paragraph 3; page 20, the add new subject matter as support may be found throughout the Specification and at, for toxicity associated with the NSAID compound. The Applicants aver that the amendments do not Claims 1 and 15 have been amended to indicate that the composition reduces the gastric

Figures 3C-E not add new subject matter as support may be found in the chemical structures provided in the naming of certain compounds. Claims 6 and 16 have been amended to correct a much regretted typographical error in The Applicants aver that the amendments to thes claims do

following remarks reexamination and reconsideration of the application in light of the foregoing amendments and Claim 3-5 has been cancelled without prejudice. Applicants respectfully request

### II. DOUBLE PATENTING

patenting over the claims in the following patents or co-pending applications Claims 1, 3-10, 12-16, 37 and 38 stand rejected on the ground of non-statutory double

- U.S. Patent Application No. 11/355,145
- U.S. Patent Application No. 11/355,306;
- U.S. Patent Application No. 11/501,393
- U.S. Patent Application No. 11/636,867; and
- U.S. Patent Application No. 12/063,039.

disclaimers linking the above referenced cases to the instant case The Applicants accept the Examiner's determination and herein provide terminal

patenting over the claims in the following patents or co-pending applications Claims 1, 3-10, 12-16, 37 and 38 stand rejected on the ground of non-statutory double

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U.S. Patent Application No. 11/820,600; U.S. Patent Application No. 11/820,755; U.S. Patent Application No. 11/820,621; U.S. Patent Application No. 11/820,608; U.S. Patent Application No. 11/820,568; U.S. Patent Application No. 11/820,607; U.S. Patent Application No. 11/649,584 U.S. Patent Application No. 11/649,584 U.S. Patent Application No. 11/820,653.
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patenting rejections vis-à-vis the previously cited applications patenting rejections. after the filing date of the instant case and are properly the subject of non-statutory double The Applicants respectfully disagree in that the above referenced applications were filed As such, the Applicants request withdrawal of the of non-statutory double

respectfully disagree for the reasons cited below. patenting over the claims in the following patents or co-pending applications. The Applicants Claims 1, 3-10, 12-16, 37 and 38 stand rejected on the ground of non-statutory double

withdrawal of these rejections hexa-hydroisoalpha acids and NSAIDS. Background for their anti-inflammatory properties. combinations of reduced isoalpha acids, dihydro-isoalpha acids, tetra-hydroisoalpha acids, and Application No. 10/532,388 and U.S. Patent Application No. 11/326874 fail to teach the use of Patent Application No. 10/590301; U.S. Patent Application No. 10/866315; U.S. Patent U.S. Patent Application No. 10/789817; U.S. Patent Application No.11/823934; U.S. NSAIDS are merely described and mentioned in the As such, Applicants respectfully request

# III. CLAIM REJECTION UNDER 35 U.S.C. § 112

completely quantifiable." Office Action, page 13. Applicants respectfully traverse steroidal anti-inflammatory). Thus, the claims are drawn to a genus of compounds which are not claims are drawn to a composition comprising a resuced isoalpha acid, dihydro isoalpha acid, tetra hydro isoalpha acid or hexahydro isoalpha acid along with a NSAID (non-aspirin, nonfor failing to comply with the written description requirement. Claims 1, 3-5, 7-10, 13-15, 37 and 38 are rejected under 35 U.S.C. § 112, first paragraph, The Examiner states that "[t]he

characteristics coupled with a known or disclosed correlation between function and structure, or possession of the claimed genus by a combination of such identifying characteristics, sufficient to show the applicant was in characteristics, i.e., structure or other physical and/or chemical properties, by functional actual reduction to practice, reduction to drawings, or by disclosure of relevant, identifying genus may be satisfied through sufficient description of a representative number of species According to MPEP § 2163 II,3(a)(ii), the written description requirement for a claimed 4

the genus and the representative species of the genus are further described on page 7, paragraph characteristics (e.g., derived from hops) and chemical properties (e.g., being in reduced form) of the "R" group may vary as described in the description of Figure 3, on page 7. The physical compounds 3C-3E further provide chemical structures of representative species of these compounds in which acids, dihydro isoalpha acids, tetra hydro isoalpha acids and hexahydro isoalpha acids. Figures (COX-2) inhibitors are also described throughout the application and at, for example, Example to page 19, paragraph 2. The functional characteristic of these compounds as cyclooxygenase-The Examples further disclose correlation between function and structure for these In the present application, Figure 2 illustrates the chemical structures of reduced isoalpha

predict the operability in the invention of any and all species of the of compounds selected from and function, the specification provides sufficient written description for a skilled artisan to Having disclosed structure, function, and working examples that correlate the structure

tetra hydro isoalpha acids and hexahydro isoalpha acids compounds selected from the group consisting of resuced isoalpha acids, dihydro isoalpha acids, submit that they were in possession of the invention as claimed with respect to the and hexahydro isoalpha acids, other than the ones disclosed. the group consisting of reduced isoalpha acids, dihydro isoalpha acids, tetra hydro isoalpha acids As such, Applicants respectfully genus of

claim 1 to include the specific NSAID species previously recited in claim 11. without acquiescing to the reasoning offered in the Office Action, Applicants have amended As for the genus of non-aspirin, non-steroidal anti-inflammatory compounds (NSAIDs),

were in possession of the invention as claimed and request the withdrawal of this rejection. As such, and based on the foregoing remarks, Applicants respectfully submit that they

# IV. CLAIM REJECTION UNDER 35 U.S.C. § 103

respectfully disagree unpatentable over Khurts (US 20070003646) in view of Grattan (US 5866162). Claims 1, 3-5, 7-10, 13-15, 37 and 38 are rejected under 35 U.S.C. § 103(a) as being The Applicants

35 U.S.C. § 103(a) respectfully request withdrawal of the rejection of Claims 1, 3-5, 7-10, 13-15, 37 and 38 under components to produce a composition with reduced gastric toxicity. inflammatory but fails to address NSAID associated toxicity. failures do not render the instant invention obvious as they provide no basis to combine deficiency is not corrected by Grattan as Grattan describes an oral formulation for an antifails to teach the use of NSAIDS nor how to reduce the gastric toxicity from NSAID use. inhibits the Claims 1 and 15 have been amended supra to teach that the composition of the invention gastric toxicity from the associated NSAID. The Applicants maintain that Kuhrts The Applicants maintain that these As such, Applicants

Babish et al. Application No. 10/557,293 Filing date: Dec. 20, 2006

#### Y. CONCLUSION

now in condition for allowance and respectfully request a notice to this effect In light of the amendments and remarks herein, Applicants submit that the claims are

number shown below Examiner's amendment, the Examiner is requested to call Applicant's agent at the telephone If there are any outstanding issues that might be resolved by an interview or an

1.20(d), for the terminal disclaimers filed herewith, to deposit account 50-1133 The Commissioner for Patents is authorized to charge any fees required under 37 C.F.R.

length of time pursuant 37 C.F.R. § 1.136(a)(3) regardless of whether a separate petition is submission, as constructively incorporating a petition for extension of time for the appropriate or future reply requiring a petition for an extension of time under paragraph 1.136 for its timely included. Deposit Account 50-1133. Furthermore, such authorization should be treated in any concurrent any fee under 37 C.F.R. § 1.17 applicable in this instant, as well as in future communications, to is included herewith. Pursuant to 37 C.F.R. § 1.136(a)(3), the Examiner is authorized to charge A Request for a Three (3) Month Extension of Time, up to and including May 23, 2010,

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

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